

# UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ☒ ELECTRIC LOGS ☒ WATER SANDS ☒ LOCATION INSPECTED

SUB. REPORT/abd.

Released 2-25-67

\*\*\* Made new Card eff. 3-13-91 \*\*\*

DATE FILED 5-11-66

LAND: FEE & PATENTED STATE LEASE NO.

PUBLIC LEASE NO. U-021758

INDIAN

DRILLING APPROVED: 5-12-66

SPUDDED IN: 5-17-66

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH: 2341'

WELL ELEVATION: 5112 GR 5125' KB

DATE ABANDONED: 7-19-66 P+A

FIELD: ~~New Field~~ Wildcat 3/86

UNIT: Judd Hollow

COUNTY: Kane

WELL NO. JUDD HOLLOW UNIT #1

API 43-025-20063

LOCATION 1830 FT. FROM (N) LINE, 660

FT. FROM (W) LINE. SW NW 1/4-1/4 SEC. 19

TWP. RGE. SEC. OPERATOR

TWP. RGE. SEC. OPERATOR:

43 S 2 E 19 UNION OIL CO. OF CALIF.

# Notice of Interaction to P&A

## FILE NOTATIONS

Entered in NID File ✓

Entered on S R Sheet ✓

Location Map Pinned ✓

Card Indexed ✓

IWR for State or Fee Land ✓

Checked by Chief PWB

Copy NID to Field Office 5-12-66

Approval Letter 5-12-66

Disapproval Letter         

## COMPLETION DATA:

Date Well Completed 7-19-66

Location Inspected         

DW          WW          TA         

Bond released         

GW          OS          PA ✓

State of Fee Land         

## LOGS FILED

Dip Log 8-19-66

Electric Logs (No. 1) 9

E          I          E-I ✓ GR          GR-N          Micro         

Lat          Mi-L          Sonic ✓ Others Neutron

DME  
3-13-91

PMB

BUREAU OF MINES  
U. S. DEPARTMENT OF THE INTERIOR  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD WATER RESEARCH LABORATORY

66165A		Sample		Date:		1-3-67	
Specific gravity at 60°/60° F			1.009		Analyst		
Resistivity in Ohm-meters at 80° F				pH		7.2	
CATION	mg/l ÷ mg/me = me/l			ANION	mg/l ÷ mg/me = me/l		
Sodium Na	2,913	23.0		Chloride Cl	4,929	35.5	
Calcium Ca	594	20.0		Bromide Br	15	79.9	
Magnesium Mg	360	12.2		Iodide I	0	126.9	
Strontium Sr	7	43.8		Fluoride F		19.0	
Barium Ba	0	68.7		Sulfate SO <sub>4</sub>	2,638	48.0	
Potassium K	219	39.1		Bicarbonate HCO <sub>3</sub>	63	61.0	
Lithium Li	4	6.9		Carbonate CO <sub>3</sub>	0	30.0	
Rubidium Rb	.8	85.5		Hydroxide OH	0	17.0	
Cesium Cs	.1	132.9					
Iron Fe		27.9					
Manganese Mn		27.5					
Boron B	10	3.6					
Copper Cu	0	63.5					
Zinc Zn		32.7					
Nickel Ni		29.4					
Ammonium		18.0					

Na = (me/l Anions - me/l Cations) x 23.0 mg/me - mg Na/l

Total Dissolved Solids =  $\sum$  (mg Anions/l + mg Cations/l)

FORMATION Miss (Bottom)

STATE Utah

COUNTY Kane

FIELD Wildcat

COMPANY Union Oil

WELL Fed. U-021758

LOCATION 19-43S-2E

LEASE Judd Hollow

BUREAU OF MINES  
U. S. DEPARTMENT OF THE INTERIOR  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD WATER RESEARCH LABORATORY

66167A

Sample

Date:

1-3-67

Specific gravity at 60°/60° F

1.010

Analyst

Resistivity in Ohm-meters at 80° F

pH

7.7

CATION	mg/l ÷ mg/me = me/l			ANION	mg/l ÷ mg/me = me/l		
Sodium Na	3,093	23.0		Chloride Cl	5,500	35.5	
Calcium Ca	996	20.0		Bromide Br	18	79.9	
Magnesium Mg	186	12.2		Iodide I	2	126.9	
Strontium Sr	22	43.8		Fluoride F		19.0	
Barium Ba	0	68.7		Sulfate SO <sub>4</sub>	2,563	48.0	
Potassium K	270	39.1		Bicarbonate HCO <sub>3</sub>	81	61.0	
Lithium Li	4	6.9		Carbonate CO <sub>3</sub>	0	30.0	
Rubidium Rb	1	85.5		Hydroxide OH	0	17.0	
Cesium Cs	.05	132.9					
Iron Fe		27.9					
Manganese Mn		27.5					
Boron B	8	3.6					
Copper Cu	0	63.5					
Zinc Zn		32.7					
Nickel Ni		29.4					
Ammonium		18.0					

Na = (me/l Anions - me/l Cations) x 23.0 mg/me - mg Na/l

Total Dissolved Solids =  $\sum$  (mg Anions/l + mg Cations/l)

FORMATION Miss (Middle)

STATE Utah

COUNTY Kane

FIELD Wildcat

COMPANY Union Oil

WELL Fed U-021758

LOCATION 19-435-RE

LEASE Judd Hollow

PMB

BUREAU OF MINES  
U. S. DEPARTMENT OF THE INTERIOR  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD WATER RESEARCH LABORATORY

66165

Sample

Date:

1-6-67

Specific gravity at 60°/60° F

1.003

Analyst

Resistivity in Ohm-meters at 80° F

pH

3.2

CATION	mg/l ÷ mg/me = me/l			ANION	mg/l ÷ mg/me = me/l		
Sodium Na	188	23.0		Chloride Cl	112	35.5	
Calcium Ca	338	20.0		Bromide Br	0	79.9	
Magnesium Mg	99	12.2		Iodide I	0	126.9	
Strontium Sr	11	43.8		Fluoride F		19.0	
Barium Ba	0	68.7		Sulfate SO <sub>4</sub>	1,478	48.0	
Potassium K	7	39.1		Bicarbonate HCO <sub>3</sub>	0	61.0	
Lithium Li	<1	6.9		Carbonate CO <sub>3</sub>	0	30.0	
Rubidium Rb	.1	85.5		Hydroxide OH	0	17.0	
Cesium Cs	.04	132.9					
Iron Fe		27.9					
Manganese Mn		27.5					
Boron B	.6	3.6					
Copper Cu	.3	63.5					
Zinc Zn		32.7					
Nickel Ni		29.4					
Ammonium		18.0					

$$\text{Na} = (\text{me/l Anions} - \text{me/l Cations}) \times 23.0 \text{ mg/me} - \text{mg Na/l}$$

$$\text{Total Dissolved Solids} = \sum (\text{mg Anions/l} + \text{mg Cations/l})$$

FORMATION L. Navajo

STATE Utah

COUNTY Kane, Utah

FIELD Wildcat

COMPANY Union Oil

WELL Fed. U-021758

LOCATION 19-43S-2E

LEASE Judd Hollow

BUREAU OF MINES  
U. S. DEPARTMENT OF THE INTERIOR  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD WATER RESEARCH LABORATORY

66167

Sample

Date: 1-6-67

Specific gravity at 60°/60° F 1.011

Analyst

Resistivity in Ohm-meters at 80° F

pH 9.6

CATION	mg/l ÷ mg/me = me/l			ANION	mg/l ÷ mg/me = me/l		
Sodium Na	4,000	23.0		Chloride Cl	3,139	35.5	
Calcium Ca	207	20.0		Bromide Br	76	79.9	
Magnesium Mg	0	12.2		Iodide I	5	126.9	
Strontium Sr	24	43.8		Fluoride F		19.0	
Barium Ba	0	68.7		Sulfate SO <sub>4</sub>	2,460	48.0	
Potassium K	362	39.1		Bicarbonate HCO <sub>3</sub>	1,586	61.0	
Lithium Li	3	6.9		Carbonate CO <sub>3</sub>	450	30.0	
Rubidium Rb	.2	85.5		Hydroxide OH	0	17.0	
Cesium Cs	.05	132.9					
Iron Fe		27.9					
Manganese Mn		27.5					
Boron B	8	3.6					
Copper Cu	0	63.5					
Zinc Zn		32.7					
Nickel Ni		29.4					
Ammonium		18.0					

Na = (me/l Anions - me/l Cations) x 23.0 mg/me - mg Na/l

Total Dissolved Solids =  $\sum$  (mg Anions/l + mg Cations/l)

FORMATION Miss (Top)

STATE Utah

COUNTY Kane

FIELD Wildcat

COMPANY Union Oil

WELL Fed. U-021758

LOCATION 19-435-RE

LEASE Judd Hollow

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Union Oil Company of California

## 3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1,830' FNL &amp; 660' FWL, SW NE NW

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

See map attached

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

660' FWL

## 16. NO. OF ACRES IN LEASE

Unit 2,269.24

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

None

## 19. PROPOSED DEPTH

7,550'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5,112' KB elevation will be furnished later.

## 22. APPROX. DATE WORK WILL START\*

May 15, 1966

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	72#	65'	Cemented to surface
13-3/4"	10-3/4"	40.5 & 45.5#	3,600'	Cemented to surface
9-7/8"	5-1/2" - If productive	17 & 15.5#	TD	With sufficient cement to meet conditions encountered

Union Oil Company of California proposes to drill a 7,550' Cambrian test with rotary tools and drilling muds as necessary.

Coring and drill stem testing will be done at the discretion of the well site geologist.

## BOP PROGRAM:

65' - 3,600' - 2000# WP double gate BOP - Rotating BOP on top.

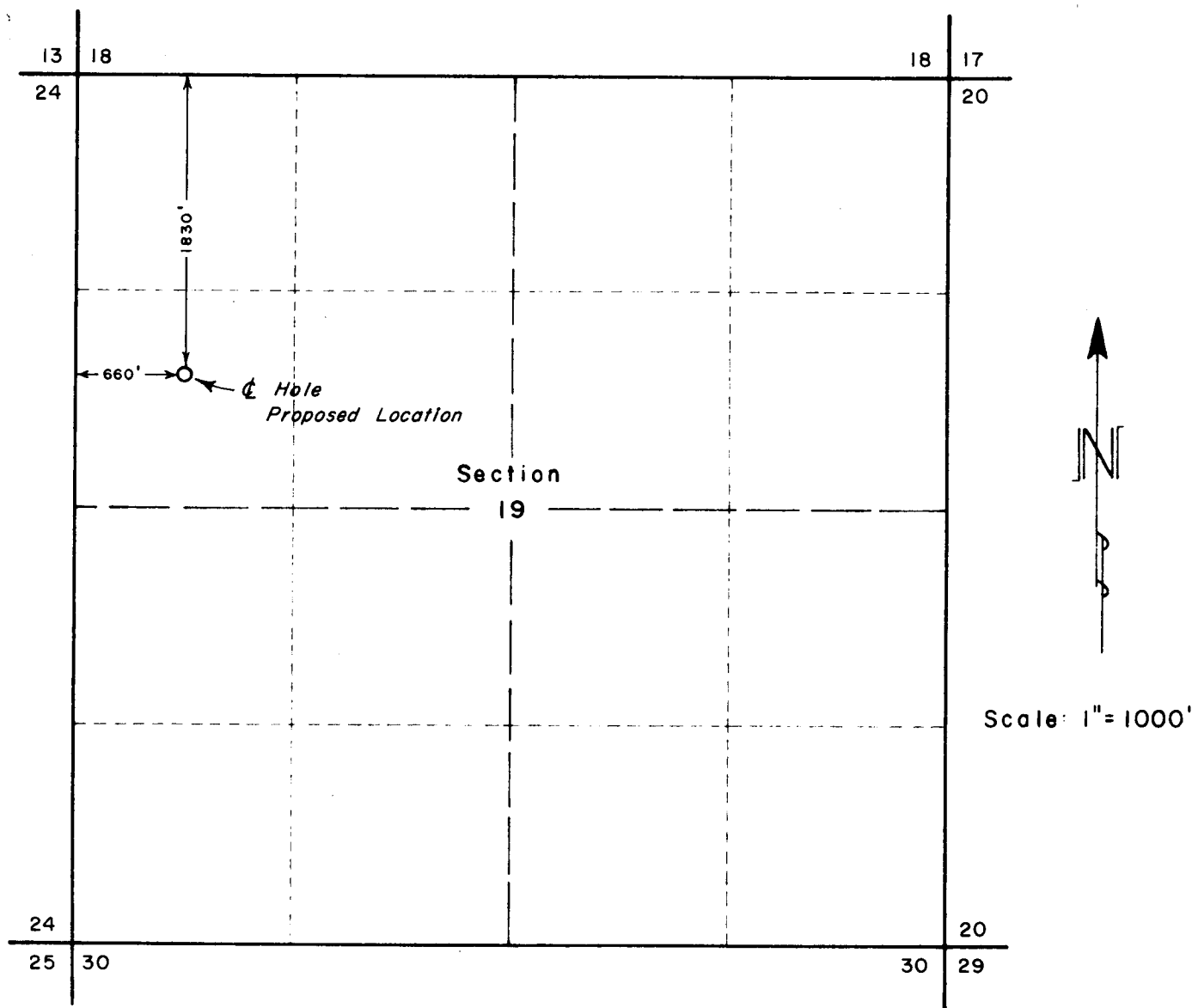
3,600' - TD - 3000# WP double gate BOP - Rotating BOP on top.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. **ORIGINAL SIGNED**  
**BY HAROLD SIMPSON**  
SIGNED Harold Simpson TITLE District Superintendent DATE May 10, 1966  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



**WELL LOCATION: Union Oil Company - No. 1 Judd Hollow Unit**

Located 1830 feet South of the North line and 660 feet East of the West line of Section 19,  
 Township 43 South, Range 2 East, Salt Lake Base & Meridian.  
 Kane County, Utah  
 Existing ground elevation determined at 5112 feet based on U.S.G.S.

I hereby certify the above plat represents a survey  
 made under my supervision and that it is accurate  
 to the best of my knowledge and belief

*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor  
 State of Utah # 2689



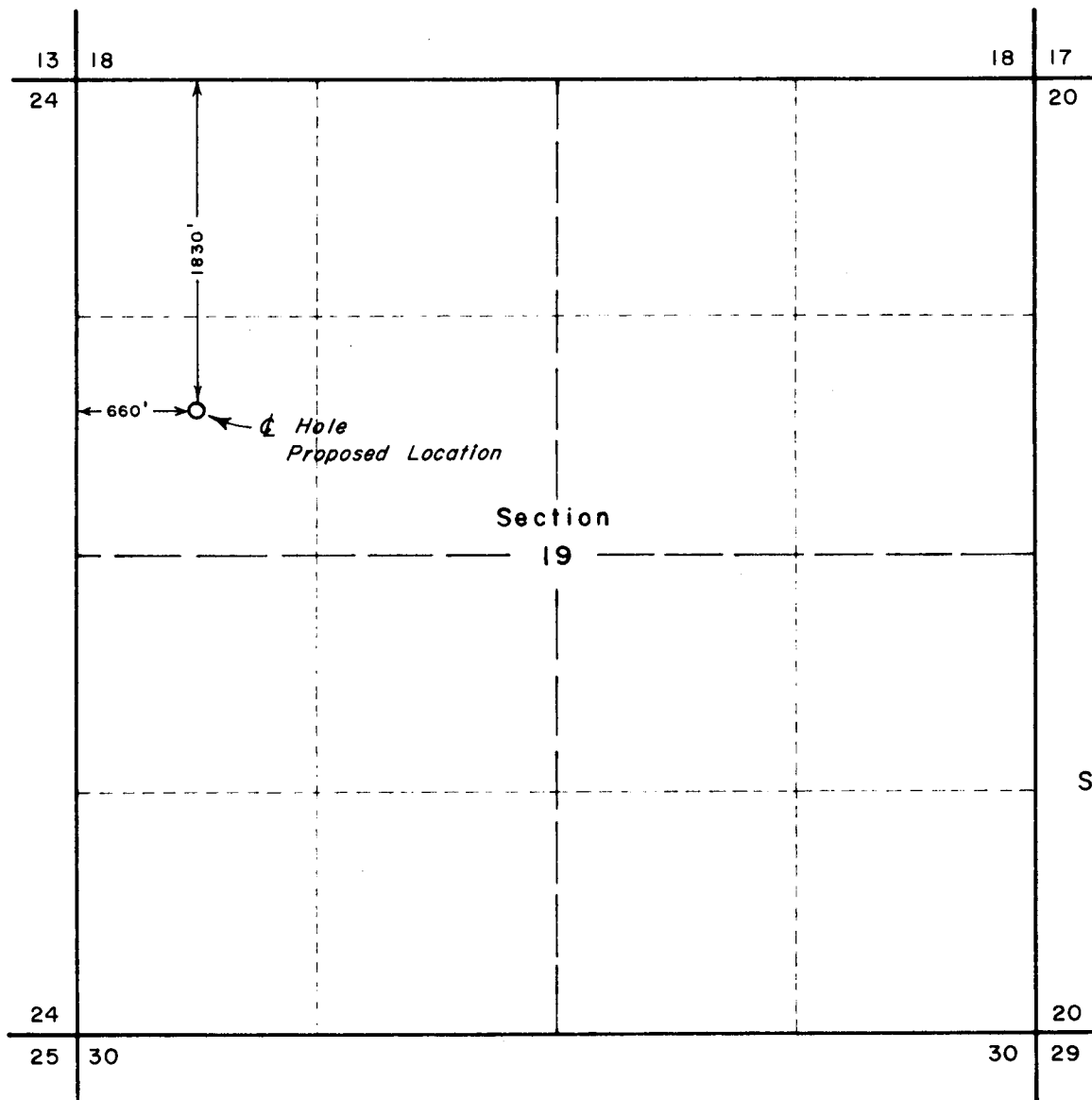
**UNION OIL COMPANY**  
 Denver, Colorado

**WELL LOCATION PLAT**  
 Section 19, T. 43 S., R. 2 E.  
 Kane County, Utah

CLARK-REED & ASSOC.  
 Durango, Colorado

DATE May 6, 1966  
 FILE NO. 66032





Scale: 1" = 1000'

**WELL LOCATION: Union Oil Company - No. 1 Judd Hollow Unit**

Located 1830 feet South of the North line and 660 feet East of the West line of Section 19,  
 Township 43 South, Range 2 East, Salt Lake Base & Meridian.  
 Kane County, Utah  
 Existing ground elevation determined at 5112 feet based on U.S.G.S.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

*Frederick H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor  
 State of Utah # 2689

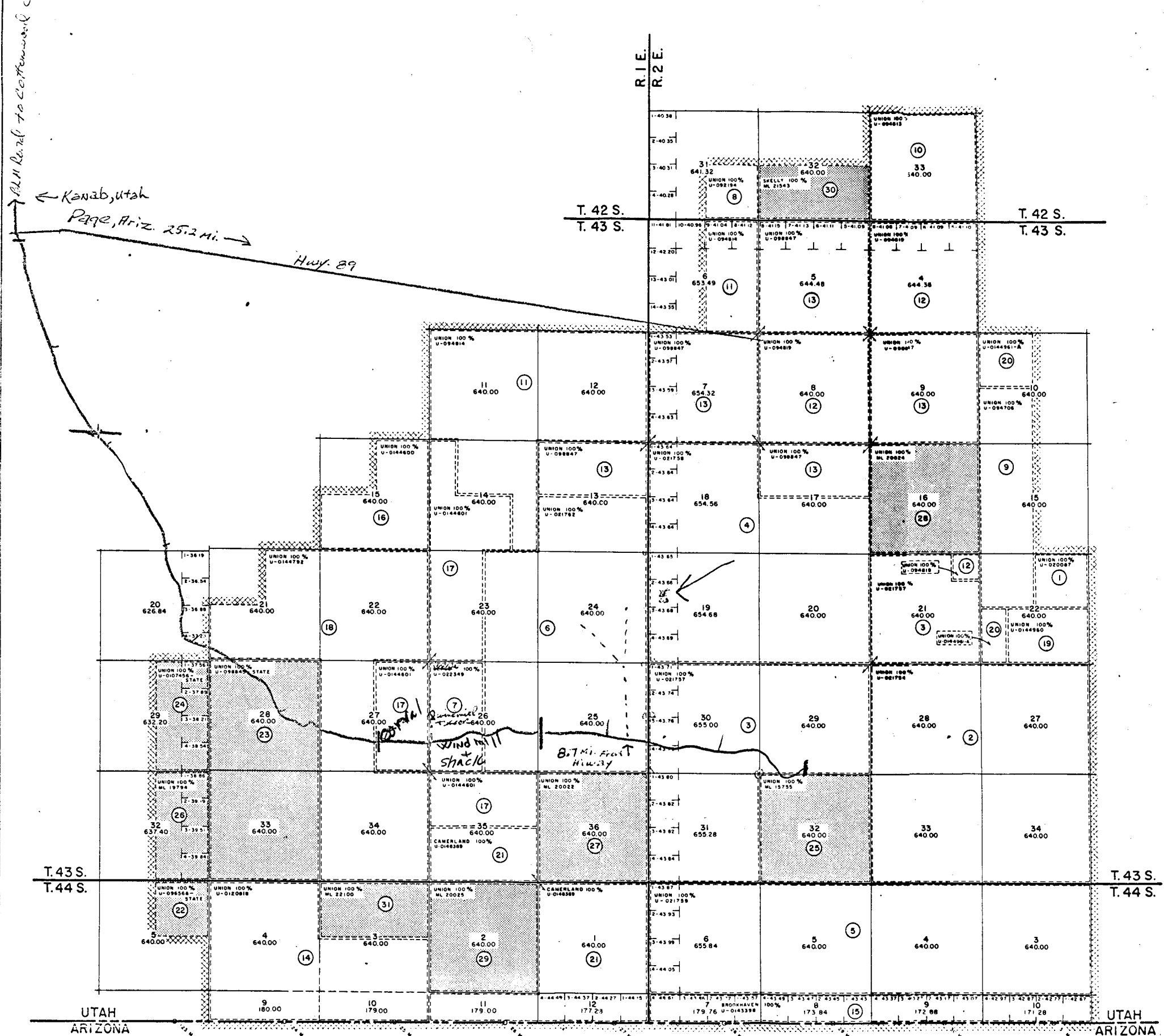


UNION OIL COMPANY  
 Denver, Colorado

WELL LOCATION PLAT  
 Section 19, T. 43 S., R. 2 E.  
 Kane County, Utah

CLARK-REED & ASSOC.  
 Durango, Colorado

DATE May 6, 1966  
 FILE NO. 66032



PROPOSED  
JUDD HOLLOW UNIT  
KANE COUNTY, UTAH  
EXHIBIT "A"

PROPOSED UNIT OUTLINE  
TRACT NUMBER

TYPE OF LAND	AREA	PERCENT OF UNIT AREA
FEDERAL	27,593.72 acres	83.965 %
STATE	5,269.60 acres	16.035 %
total	32,863.32 acres	100.000 %

○ found corners  
— fence line

MAY 11 1966

May 12, 1966

Union Oil Company of California  
P. O. Box 1611  
Casper, Wyoming

Re: Well No. Judd Hollow Unit #1,  
Sec. 19, T. 43 S., R. 2 E.,  
Kane County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHILL, Chief Petroleum Engineer  
HOME: 277-2890 - Salt Lake City, Utah  
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT  
EXECUTIVE DIRECTOR

CBF:ah

cc: Rodney Smith, District Engineer  
U. S. Geological Survey  
Salt Lake City, Utah

106165-010

U.S. BUREAU OF MINES  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD WATER RESEARCH LABORATORY  
BARTLESVILLE, OKLAHOMA

INFORMATION TO BE RETURNED WITH EACH SAMPLE OF WATER

(Please type or print as much as possible of the following information, using this sheet)

NAVAJO

Marks on sample container Union Oil Co. of Calif. Field Wildcat  
Farm or lease Fed.-U-021758 Well No Judd Hollow Unit #1 in the SW NW  
of Section 19 Township 43 S Range 2 E  
County Kane State Utah Operator Union Oil Co. of Calif.

Operator's address (main office) P. O. Box 1611 - Casper, Wyoming

Sample obtained by Ralph Cline Date 6/15/66

Address Same As Above Representing Same As Above

Sample obtained from (lead line, separatory flow tank, etc.) Blow Line

Completion date of well P&A 7/19/66 Elevation of well 5112 GR.

Name of productive zone from which sample is produced Lower 1/3 Navajo Sand X Shale        Lime         
Name of productive formation Glen Canyon Group Names of formations Surface - Carmel  
well passes through Navajo - 160'

Depths: Top of formation 160' Bottom of formation 2060'

Top of producing zone Approx. 793' Bottom of producing zone 2060'

Total depth drilled 7341' Present depth P & A

Date of last workover None Are any chemicals added to treat well? None If yes, what?       

Well production:	Initial	Present	Casing service record:
Oil, barrels/day	<u>None</u>	<u>      </u>	<u>20" set at 50' / 11 yard.</u>
Water, barrels/day	<u>50-100</u>	<u>      </u>	<u>10 3/4" set at 2750' / 1400 sacks</u>
Gas, cubic feet/day	<u>None</u>	<u>      </u>	<u>8 5/8" liner set @ 2640' - 5966 / 200 sz.</u>
Pressures {	Reservoir	<u>Not available</u>	<u>Method of Production (Primary or Secondary) <u>Artisan</u></u>
	Tubing	<u>      </u>	
	Casing	<u>      </u>	

Other Remarks: Only one sample bottle of Navajo water in carton.  
Other bottle (Marked-acid) is from bottom Mississippian Formation.

## INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTIONName of Company UNION OIL of CALIFORNIA Date June 21, 1966Name of Drilling Contractor Loffland BrothersWell Name and Number Judd Hollow Unit #1 Rig No. 242 Field WildcatSection 19 Township 43 S Range 2 ECounty Kane Driller Charles B. CortezNumber Present five Toolpusher Bob Zent (Not present on location)Date of last lost-time accident None on location (None for a long time)

Items causing lost-time accidents that have been corrected, or which need to be corrected

None

Accidents or near accidents that have recently occurred on rig

Nothing seriousAny new employees in crew three Have instructions been given the new crew members yes

	(Good) yes	(Poor) no
Escape Line and Slide-----	<u>X</u>	
Ladders, Side Rails, Steps-----	<u>X</u>	
Walk-Around Floor and Railing-----	<u>X</u>	
Engines Guarded-----	<u>X</u>	
Rotary Drive Guard-----	<u>X</u>	
All High Pressure Fittings in High Pressure Lines-----	<u>X</u>	
Fire Control Available-----	<u>X</u>	
General Housekeeping-----	<u>X</u>	
Hard Hats-----	<u>X</u>	
First Aid Kit-----	<u>X</u>	
Blowout Preventer-----	<u>X *</u>	
Cellar Clean, No Debris-----	<u>X</u>	
Cathead-----	<u>X</u>	
Safety belts available-----	<u>X</u>	

Working @1000 psi-1200 psi & Tested @ 2500 psi

Unsafe practices that might cause a mishap and recommendations made for a safe method of  
doing the job None visibleDrillers, Toolpushers or Drilling Superintendents reactions Very cooperativeRemarks Driller stated he was satisfied with condition of rig and associated equipment.Also, he stated he had no complaints regarding working conditions.\*Pipe & Blind ram checked and found in good working condition (Small leak developed in one  
of the valves - This will be fixed as soon as possible)Deputy Inspector PAUL W. BURCHELL - UTAH OIL & GAS CONSERVATION COMMISSION

U.S. BUREAU OF MINES  
BARTLESVILLE PETROLEUM RESEARCH CENTER  
OILFIELD BRINE RESEARCH LABORATORY  
BARTLESVILLE, OKLAHOMA

INFORMATION TO BE RETURNED WITH EACH SAMPLE OF WATER

(Please type or print as much as possible of the following information, using this sheet)

Top and Middle Mississippian

Marks on sample container Union Oil Co. of Calif. Field Wildcat

Farm or lease Fed. U-021758 Well No. Judd Hollow Unit the SW NW  
No. 1

of Section 19 Township 43 S Range & E

County Kane State Utah Operator Union Oil Co. of Calif.

Operator's address (main office) P. O. Box 1611 - Casper, Wyoming

Sample obtained by Ralph Cline Date 7-18-66

Address Same as Above Representing Same as Above

Sample obtained from (lead line, separatory flow tank, etc.) DST

Completion date of well P & A 7-19-66 Elevation of well 5112' GR.

Name of productive zone from which sample is produced Red Wall

Sand        Shale        Lime X Other         
Name of productive formation Mississippian Names of formations well passes through \*\*\*

Depths: Top of formation 6295' Bottom of formation 6899'

Top & Middle of  
Top of producing zone Mississippian Bottom of producing zone       

Total depth drilled 7341' Present depth P & A

Bottom hole temperature        Pressure and date of pressure       

Date of last workover None Are any chemicals added to treat well? None If yes, what?       

Well production:	Initial	Present	Casing service record:
Oil, barrels/day	<u>None</u>	<u>      </u>	<u>20" set at 50'/11 yd.</u>
Water, barrels/day	<u>Not available</u>	<u>      </u>	<u>10 3/4" set at 2750'/1400 sacks</u>
Gas, cubic feet/day	<u>None</u>	<u>      </u>	<u>8 5/8" liner set at 2648' - 5966</u> Method of Production (Primary or Secondary) <u>Water on DST</u>

Remarks: (Such as casing leaks, communication, or other pays in same well, lease, or in field)

\*\*\*Carmel, Navajo, Kayenta, Wingate, Chinle, Shinarump, Moenkopi, Kaibab, Taroweap, Organ Rock, Cedar Mesa, Hermosa, Molas, Red Wall, Quray, Elbert, Lynch.  
Only one sample bottle from the top of the Miss. Other bottle (Marked-Acid) from middle of Miss.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPL  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U.S.A. U-021758

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Judd Hollow Unit

8. FARM OR LEASE NAME

Judd Hollow Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 19, T-43S, R-2E

12. COUNTY OR PARISH

Kane

13. STATE

Utah

1. OIL ☐ GAS ☐ OTHER ☒ Dry Hole

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 1611 - Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface

1,830' FNL and 660' FWL, SW NW

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5,112'; KB 5,125'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETION ☐ABANDON\* ☒CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded May 17, 1966, with dry hole digger. Drilled 26" hole to 52'. Set 50' of 20" casing on May 20 and cemented with 11 yards of ready mix. Drilled to 3,011'. On June 11, 1966, set 86 jts. of 10-3/4" 45.5# and 40.5# J-55 casing at 2,750'. Cemented in two stages using a total of 1,400 sax 50-50 Pozmix, 2% gel and 10% salt. Drilled to 6,012'. Ran Schlumberger Dual Injection and Gamma Ray Sonic with Caliper logs. On July 9, 1966, set 8-5/8" N-80 liner from 2,648' to 5,966'. Cemented with 200 sax 50-50-Pozmix, 2% gel and 10% salt. Drilled to 7,331' TD. Drilling completed 7-18-66. Ran Electric logs.

Propose to plug and abandon well as follows:

Plug No. 1	- 7,030'	- 6,930'	- 100'	- 32 sax
Plug No. 2	- 6,350'	- 6,250'	- 100'	- 32 sax
Plug No. 3	- 6,170'	- 6,070'	- 100'	- 32 sax
Plug No. 4	- 5,980'	- 5,916'	- 64'	- 24 sax
Plug No. 5	- 2,600'	- 2,675'	- 75'	- 43 sax
Plug No. 6	- 35'	- 0'	- 35'	- 10 sax

Will install dry hole marker in accordance with U.S.G.S. and State of Utah regulations.

Verbal approval to plug and abandon obtained by Mr. R. D. Cline from Mr. Rodney Smith, U.S.G.S., Salt Lake City, and from Mr. Paul Burchell - Utah Oil & Gas Conservation Commission by phone 7-18-66.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE District Drilling Supt.

DATE

AUG 9 1966

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.  
5. LEASE DESIGNATION AND SERIAL NO.U.S.A. U-021756  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Dry Hole</b>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	<b>Judd Hollow Unit</b>
3. ADDRESS OF OPERATOR	<b>Judd Hollow Unit</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	10. FIELD AND POOL, OR WILDCAT
<b>1,830' FNL and 660' FWL, SW NW</b>	<b>Wildcat</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)
	<b>GL. 5112'; KB 5125'</b>
	<b>Sec 19, T43N, R2E</b>
	<b>Kane Utah</b>

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

## Plugged and abandoned as follows:

Plug No.	1	-	7030'	-	6930'	-	100'	-	32	sz.
"	2	-	6350'	-	6250'	-	100'	-	32	sz.
"	3	-	6170'	-	6070'	-	100'	-	32	sz.
"	4	-	5980'	-	5916'	-	64'	-	24	sz.
"	5	-	2600'	-	2675'	-	75'	-	43	sz.
"	6	-	35'	-	0'	-	35'	-	10	sz.

Drilling mud placed between each cement plug. Dry Hole marker installed in accordance with U.S.G.S. and State of Utah regulations.

Plugged &amp; Abandoned 4 P.M. July 19, 1966.

18. I hereby certify that the foregoing is true and correct

SIGNED	<b>ORIGINAL SIGNED BY</b>	TITLE	<b>District Drilling Supt.</b>	DATE	<b>8-9-66</b>
	<b>W. J. Mansbridge</b>				

(This space for Federal or State office use)

APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

\*See Instructions on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE \*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____										5. LEASE DESIGNATION AND SERIAL NO. <b>U.S.A. U-021758</b>	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <b>Plug &amp; Abandon</b>										6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Union Oil Company of California</b>										7. UNIT AGREEMENT NAME <b>Judd Hollow Unit</b>	
3. ADDRESS OF OPERATOR <b>P. O. Box 1611 - Casper, Wyoming</b>										8. FARM OR LEASE NAME <b>Judd Hollow Unit</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>1,830' FNL and 660' FW L (SW NW)</b>  At top prod. interval reported below  At total depth										9. WELL NO. <b>1</b>	
14. PERMIT NO. _____ DATE ISSUED _____										10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
15. DATE SPUDDED <b>5-28-66</b>										11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <b>Sec. 19, T-43S, R-2E</b>	
16. DATE T.D. REACHED <b>7-18-66</b>										12. COUNTY OR PARISH <b>Kane</b>	
17. DATE COMPL. (Ready to prod.) <b>7-19-66</b>										13. STATE <b>Utah</b>	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <b>OR 5,112'; KB 5,125'</b>										19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD <b>7,341'</b>										21. PLUG, BACK T.D., MD & TVD	
22. IF MULTIPLE COMPL., HOW MANY*										23. INTERVALS DRILLED BY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <b>Dry hole</b>										25. WAS DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN <b>Schlumberger Neutron, Sonic &amp; Gamma Ray Dual Induction, Laterolog</b>										27. WAS WELL CORED <b>No</b>	
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
20"		91.41		50'		26"		Ready mix - 11 yards		-0-	
10-3/4"		40.5 & 45.5		2,750'		13-3/4"		1400 sx 50-50 Pozmix		-0-	
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)			
8-5/8"		2,648'		5,966'		200 sx 50-50 Pozmix					
30. TUBING RECORD											
SIZE		DEPTH SET (MD)		PACKER SET (MD)							
8-5/8"											
31. PERFORATION RECORD (Interval, size and number)						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
						DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
		<b>Dry hole - Plugged and abandoned July 19, 1966</b>									
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
35. LIST OF ATTACHMENTS											
None											
36. I hereby certify that the foregoing information is complete and correct as determined from all available records											
ORIGINAL SIGNED BY <b>W. J. Mansbridge</b>											
SIGNED <b>W. J. Mansbridge</b> TITLE <b>District Drilling Supt.</b> DATE <b>8-9-66</b>											

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP DATUM
<b>Well P &amp; A 7-19-66 as follows:</b>						
Plug No. 1	7,030'	6,930'	100' - 32 sax	Carmel	Surface	+4965
Plug No. 2	6,350'	6,250'	100' - 32 sax	Navajo	160'	+3065
Plug No. 3	6,170'	6,070'	100' - 32 sax	Kayenta	2,060'	+2950
Plug No. 4	5,980'	5,916'	64' - 24 sax	Wingate	2,175'	+2783
Plug No. 5	2,600'	2,675'	75' - 43 sax	Chinle	2,342'	+1889
Plug No. 6	35' -	0'	35' - 10 sax	Shinarump	3,236'	+1680
				Moenkopi	3,445'	+1075
				Kai bab	4,050'	+750
				Taroweap	4,375'	+525
				Organ Rock	4,600'	+19
				Cedar Mesa	5,106'	-995
				Hermosa	6,120'	-1120
				Molas	6,245'	-1170
				Red Wall	6,295'	-1774
				Ouray (?)	6,899'	-1870
				Elbert	6,995'	-2044
				Lynch	7,169'	-2216
				DrIr & Sch. TD	7,341'	

AUG 19 1966

AUG 19 1966

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL:				OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other _____				
b. TYPE OF COMPLETION:				NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <b>Plug &amp; Abandon</b>		
2. NAME OF OPERATOR <b>Union Oil Company of California</b>											
3. ADDRESS OF OPERATOR <b>P. O. Box 1611 - Casper, Wyoming</b>											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <b>1830' FNL &amp; 660' FWL, SW NW</b> At top prod. interval reported below  At total depth											
14. PERMIT NO.				DATE ISSUED							
15. DATE SPUDDED <b>5-28-66</b>											
16. DATE T.D. REACHED <b>7-18-66</b>											
17. DATE COMPL. (Ready to prod.) <b>7-19-66</b>											
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <b>5112 Gr. - 5125 KB</b>											
19. ELEV. CASINGHEAD											
20. TOTAL DEPTH, MD & TVD <b>7,341</b>											
21. PLUG, BACK T.D., MD & TVD											
22. IF MULTIPLE COMPL., HOW MANY*											
23. INTERVALS DRILLED BY <b>Rotary Air</b>											
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*											
25. WAS DIRECTIONAL SURVEY MADE <b>Yes</b>											
26. TYPE ELECTRIC AND OTHER LOGS RUN <b>Schlumberger Neutron, Sonic &amp; Gamma Ray Dual Induction, Laterolog</b>											
27. WAS WELL CORED <b>No</b>											
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
20"		91.41		50'		26"		Ready mix 11 yards			
10-3/4"		40.5 & 45.5		2750'		13-3/4"		1400 sx 50/50 Pozmix			
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)			
8-5/8"		2648		5966'		200 sx 50/50 Pozmix					
30. TUBING RECORD											
SIZE		DEPTH SET (MD)		PACKER SET (MD)							
31. PERFORATION RECORD (Interval, size and number)											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL (MD)						AMOUNT AND KIND OF MATERIAL USED					
33.* PRODUCTION											
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE				WATER—BBL.		GAS-OIL RATIO	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
ORIGINAL SIGNED BY <b>W. J. Mansbridge</b>											
SIGNED				TITLE <b>District Drilling Supt.</b>				DATE <b>8-9-66</b>			

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# Union Oil Company of California

POST OFFICE BOX 1611



CASPER, WYOMING 82602

August 18, 1966

TEL.: 234-1565

Mr. Cleon B. Feight  
Executive Director  
Utah Oil and Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah

Dear Mr. Feight:

Enclosed are revised copies of Form 9-330, Well Completion or Recompletion Report and Log, on Judd Hollow Unit No. 1, located in the SW NW of Sec. 19, T-43S, R-2E, Kane County, Utah, showing the log tops and plugging data.

It is respectfully requested that all information on this well be held as confidential. At the time the information is released, which should be in the near future, your office will be promptly notified.

Mr. D. J. Eckelberg of our Durango office will send copies of the logs to your attention.

Yours very truly,

W. J. Mansbridge  
District Drilling Superintendent

WJM:js

# Union Oil Company of California

NORTHERN DIVISION

P. O. BOX 3372



PHONE 247-4300

DURANGO, COLO. 81302

August 23, 1966

Mr. Cleon B. Feight  
Executive Director  
Utah Oil & Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah

Re: Union Oil Company of Calif.  
Judd Hollow Unit No. 1  
SW NW Sec. 19, T.43S., R.2E  
Kane County, Utah

Dear Mr. Feight:

Enclosed for the files of the Utah Oil and Gas Conservation Commission are Two (2) copies each of the logs on the above captioned well. The delay in forwarding the required logs was due to an oversight in this office.

The Judd Hollow Unit #1 was drilled as a "Tite Hole". We would appreciate your cooperation in keeping the logs and other information confidential at this time. You will be notified immediately upon release of the well data.

Yours truly,

UNION OIL COMPANY OF CALIFORNIA

Clarence L. Harr  
District Exploration Geologist

CLH/mr

Enclosures: Gamma Ray-Neutron  
Sonic Log-Gamma Ray (with Caliper)  
Dual Induction-Laterolog + Induction-Electrical Log

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☒

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Rangeland Exploration Company

(915) 686-8983

3. ADDRESS OF OPERATOR

P.O. Box 232, Midland, Tx. 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1823' FNL & 668' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

5 air miles SW of Glen Canyon City, Ut.

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any)

668'

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES IN LEASE

3,899.52

17. NO. OF ACRES ASSIGNED

TO THIS WELL

40

19. PROPOSED DEPTH

9,350'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,122' ungraded ground

22. APPROX. DATE WORK WILL START\*

June 1, 1994

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
	20"	Conductor	50'	11 cu yd and to surface
	10-3/4"	Surface Casing	2,750'	~1400 sx and to surface
	8-5/8"	Liner	5,966'	~200 sx
7-7/8"	5-1/2"	17# (J-55)	9,350'	~2101 cu ft and to surface

Will re-enter well originally drilled and plugged by Union Oil in 1966. Union drilled to 7341' and set conductor pipe, surface casing, and liner. Wellbore has been resurveyed and corrected footages shown on plat.

This APD is also serving as a BLM right-of-way application. Italicized portions of APD refer to right-of-way.

Dashed lines on Pages 17 & 18 (reduced 23%) are BLM right-of-way.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Consultant

DATE

4-21-94

(This space for Federal or State office use)

PERMIT NO.

43-025-20063

APPROVAL DATE

APPROVED BY

*Walter R. Staker*

TITLE

*District Manager*

DATE

7/12/94

CONDITIONS OF APPROVAL, IF ANY:

Attached

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☒

PLUG BACK ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Rangeland Exploration Company

(915) 686-8983

3. ADDRESS OF OPERATOR

P.O. Box 232, Midland, Tx. 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)

At surface

1823' FNL & 668' FWL SW NW

At proposed prod. zone

Same

43-025-20063

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

5 air miles SW of Glen Canyon City, Ut.

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

668'

16. NO. OF ACRES IN LEASE

3,899.52

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

9,350'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,122' ungraded ground

22. APPROX. DATE WORK WILL START\*

June 1, 1994

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
	20"	Conductor	50'	11 cu yd and to surface
	10-3/4"	Surface Casing	2,750'	≈1400 sx and to surface
	8-5/8"	Liner	5,966'	≈200 sx
7-7/8"	5-1/2"	17# (J-55)	9,350'	≈2101 cu ft and to surface

Will re-enter well originally drilled and plugged by Union Oil in 1966. Union drilled to 7341' and set conductor pipe, surface casing, and liner. Wellbore has been resurveyed and corrected footages shown on plat.

This APD is also serving as a BLM right-of-way application. Italicized portions of APD refer to right-of-way.

Dashed lines on Pages 17 & 18 (reduced 23%) are BLM right-of-way.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Brian Wood TITLE Consultant DATE 4-21-94

(This space for Federal or State office use)

PERMIT NO. 43-025-20063

APPROVAL DATE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE: 7/15/94

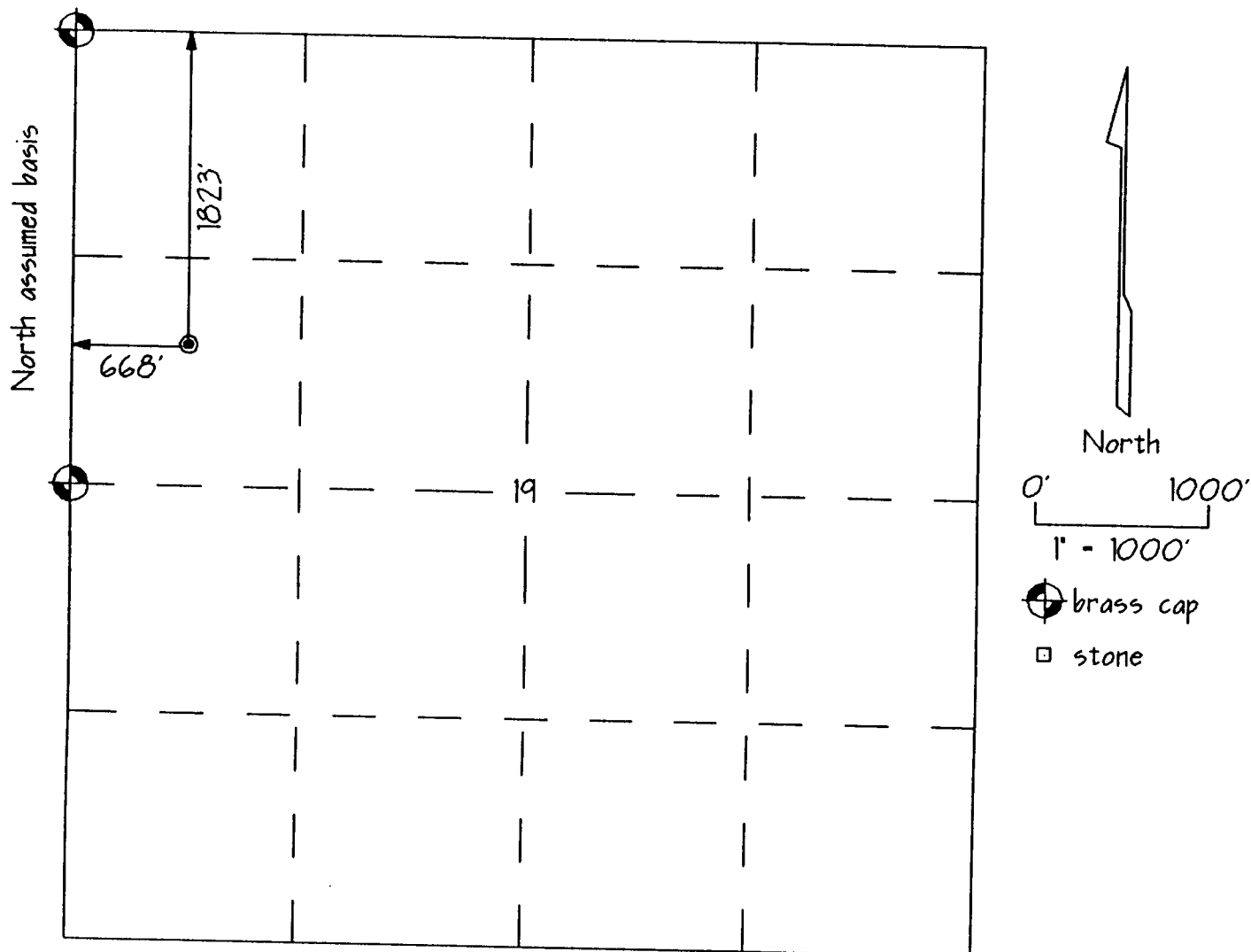
BY: JAN [signature]

WELL SPACING: R649-3-2

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well Location Plat



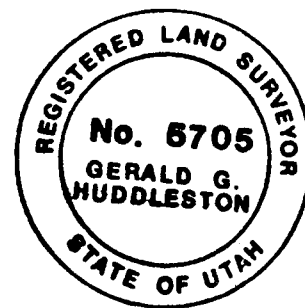
Well Location Description

RANGELAND EXPLORATION COMPANY  
Judd Hollow # 1  
1823' FNL & 668' FWL  
Section 19, T.43 S., R.2 E., SLM  
Kane County, Utah  
5122' ground elevation

12 April 1994

The above is true and correct to my knowledge and belief.

*Gerald G. Huddleston*  
Gerald G. Huddleston, LS

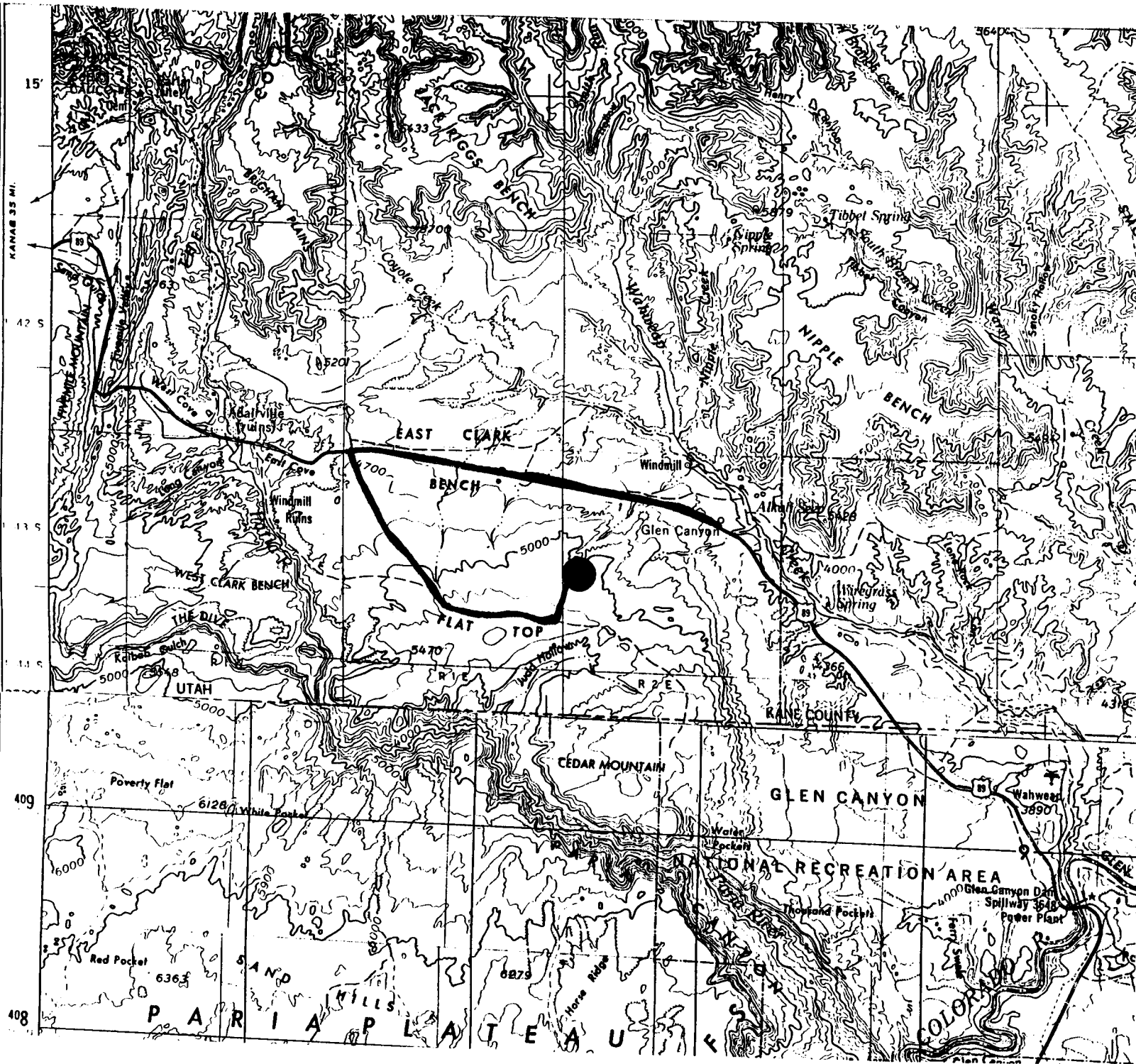


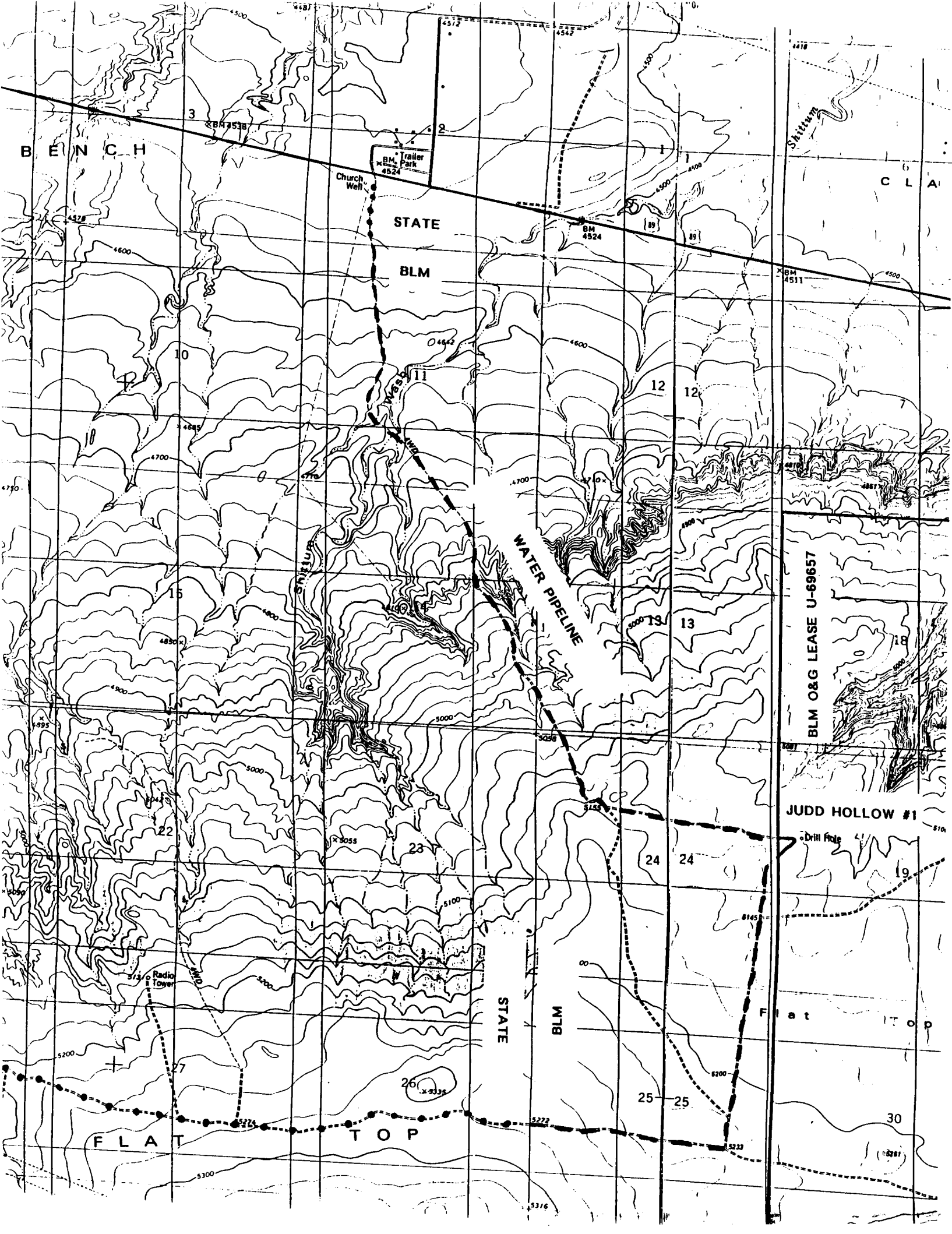
Huddleston Land Surveying - Drawer KK - Cortez, CO 81321 - (303) 565-3330

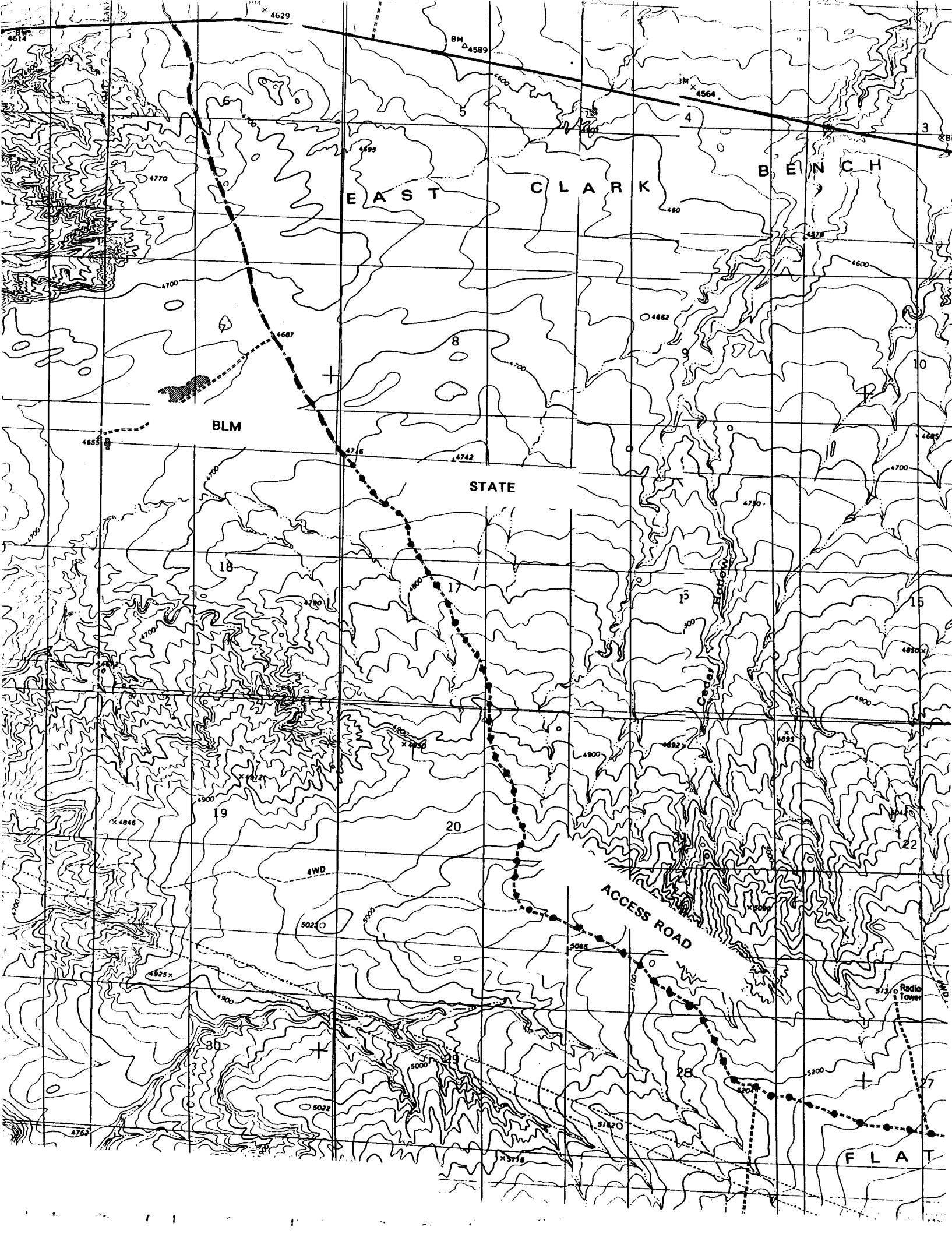


Rangeland Exploration Company  
 Judd Hollow #1  
 1823' FNL & 668' FWL  
 Sec. 19, T. 43 S., R. 2 E.  
 Kane County, Utah

PAGE 16







Rangeland Exploration Company  
 Judd Hollow #1  
 1823' FNL & 668' FWL  
 Sec. 19, T. 43 S., R. 2 E.  
 Kane County, Utah

PAGE 1

All lease operations will fully comply with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. Rangeland Exploration Company will furnish a copy of these conditions to its field representative to assure compliance.

### Drilling Program

<u>1. Formation Name</u>	<u>Depth from GL</u>	<u>Depth from KB</u>	<u>Subsea Depth</u>
Carmel	0'	12'	+5,122'
Navajo	160'	172'	+4,962'
Kayenta	2,060'	2,072'	+3,062'
Wingate	2,175'	2,187'	+2,947'
Chinle	2,342'	2,354'	+2,780'
Shinarump	3,236'	3,248'	+1,886'
Moenkopi	3,445'	3,457'	+1,677'
Kaibab	4,050'	4,062'	+1,072'
Toroweap	4,375'	4,387'	+ 747'
Organ Rock	4,600'	4,612'	+ 522'
Cedar Mesa	5,106'	5,118'	+ 16'
Hermosa	6,120'	6,132'	- 998'
Molas	6,245'	6,257'	-1,123'
Redwall	6,295'	6,307'	-1,173'
Ouray	6,899'	6,911'	-1,777'
Elbert	6,995'	7,007'	-1,873'
Lynch	7,169'	7,181'	-2,047'
Bright Angel	8,100'	8,112'	-2,978'
Tapeats	8,400'	8,412'	-3,278'
Chuar	8,690'	8,702'	-3,568'
Total Depth (TD)	9,350'	9,362'	-4,228'

\* All depths are based on an ungraded ground level of 5,122'.

Rangeland Exploration Company  
Judd Hollow #1  
1823' FNL & 668' FWL  
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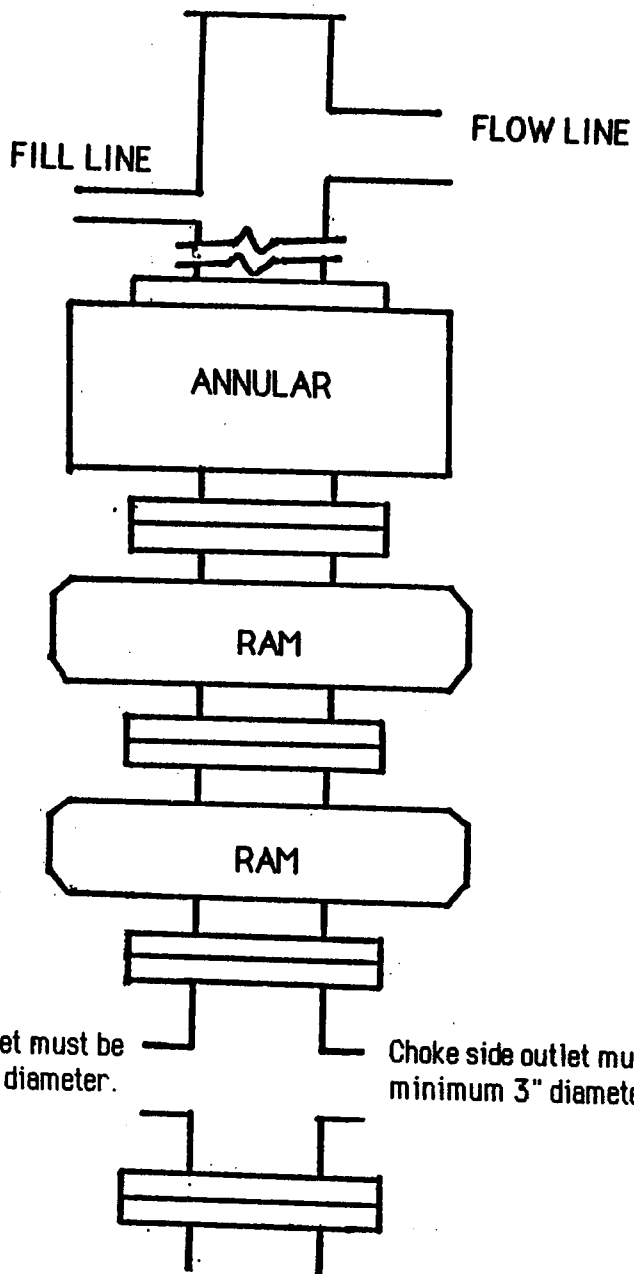
## 2. NOTABLE ZONES

The Tapeats sandstone is the target zone. Uranium can be found in the Chinle. No other mineral zones are expected to be found. Water zones include the Navajo-Wingate interval and Redwall. The former is already cemented off behind surface casing. The latter is below several cement plugs and heavy mud intervals. Any other water zone which is found will also be protected. Oil and gas shows will be tested as determined appropriate by the wellsite geologist.

## 3. PRESSURE CONTROL (Also see "5." on PAGE 4)

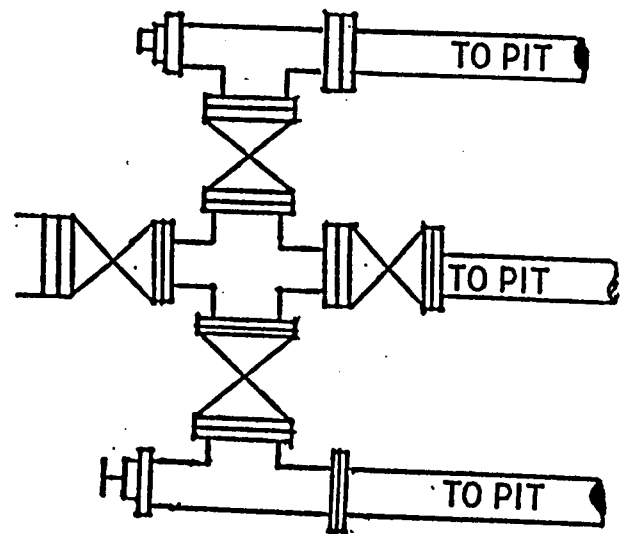
An 11" x 3,000 psi double ram BOP with 3,000 psi choke manifold will be used. (A typical 3,000 psi BOP is on Page 3. The actual model will not be known until the bid is let.) Pressure test casing to 1,000 psi and annular preventer to 1,500 psi before drilling out. Test valves, manifold, lines, pipe, and blank to 3,000 psi. Place test plug in bottom of wellhead and retest surface equipment every 30 days.

BOP system will be consistent with API RP53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. BOP controls will be installed before drilling the surface casing plug, and will stay in use until the well is completed or abandoned. BOPs will be inspected and operated at least daily to assure good mechanical working order. All BOP mechanical tests, pressure tests, and inspections will be recorded on the drillers log or daily drilling report. BLM will be notified before pressure tests.



**TYPICAL BOP STACK  
& CHOKE MANIFOLD**

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill side outlet must be minimum 2" diameter.

Choke side outlet must be minimum 3" diameter.

Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.  
Safety valve and subs will fit all drill string connections in use.  
All BOPE connections subjected to well pressure will be flanged, welded, or clamped.

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#### 4. CASING & CEMENTING

Well was originally drilled by Union Oil in 1966. They set 20" conductor pipe at 50' and cemented to the surface with  $\approx 11$  cubic yards. They set 10-3/4" surface casing at 2,750' and cemented it to the surface with  $\approx 1400$  sx. Union also ran 8-5/8" liner from 2,648' to 5,966' and cemented it with 200 sx. No other casing or cement details available. Rangeland will run following production casing:

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Setting Depth</u>
7-7/8"	5-1/2"	17#	J-55	LT&C	New	0' - 9,350'

Rangeland will call BLM at (801) 586-2401 (ask for Theron Mitchell) before running casing and cementing. Stage collar will be set at  $\approx 7,000'$  and 20 centralizers will be used on production casing. It will be cemented as follows:

##### First Stage

Lead with  $\approx 225$  sx Class C w/ 3% econolite, 5#/sk gilsonite, and 1/4#/sk flocele to yield  $\approx 603$  cu ft.

Tail with  $\approx 120$  sx 50/50 poz w/ 2% gel, 5#/sk salt, and 0.5% CFR to yield  $\approx 160$  cu ft

##### Second stage

Lead with  $\approx 450$  sx Class C w/ 3% econolite, 5#/sk gilsonite, and 1/4#/sk flocele to yield  $\approx 1206$  cu ft.

Tail with  $\approx 100$  sx Class C Neat to yield  $\approx 132$  cu ft.

#### 5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>pH</u>
0'-7,341'	Fresh water	8.4		No additives	
7,341' - TD	Fresh gel LSND	8.5	32	18-20	10

Mud for the last interval may be aerated. Lost circulation material will

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be on site. A mud logger may be on site once the well is below the liner.

#### 6. CORING, TESTING, & LOGGING

A hundred foot core may be cut in the Tapeats and Precambrian. A DST may be run in the Tapeats. A dipmeter and DIL-ML/BHC Sonic/CNL-FDC/GR/SP logs may be run from  $\approx 5,900'$  to TD. A gas detector will be used.

Whether the well is completed as a dry hole or producer, "Well Completion or Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations *per* 43 CFR 3162.4-1(b). Two copies of all logs, core descriptions & analyses, test data, geology summaries, sample descriptions, and all other data obtained during drilling, workover, or completion operations, will be filed with Form 3160-4. (If requested, sample cuttings, fluids, and/or gases will be sent to BLM.)

#### 7. DOWNHOLE CONDITIONS

The maximum anticipated bottom hole pressure is  $\approx 3,000$  psi. Mud weight and BOP system will be adequate to handle  $\approx 3,000$  psi. No abnormal pressures, temperatures, or hydrogen sulfide are expected.

#### 8. MISCELLANEOUS

The anticipated spud date is June 1, 1994. It is expected it will take  $\approx 15$  days to drill the well and  $\approx 12$  days to complete the well. The rig will be self-illuminated so drilling can go on around the clock. A rig can be heard from about a mile away. Rig will be  $\approx 120'$  tall. Anticipated



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traffic is  $\approx$ 25 trucks /day during drilling. Traffic will be  $\approx$ 2 trucks/day during production.

Rangeland will call BLM with the spud date within 48 hours of spudding. A Sundry Notice (Form 3160-5), reporting the spud date and time, will be sent to the Cedar City District BLM (176 East Sargent Dr., Cedar City, Ut. 84720) within 24 hours after spudding. If the spud is on a weekend or holiday, the Sundry will be sent on the following regular work day.

Starting with the month in which operations begin, and continuing each month until the well is physically P&Aed, a "Monthly Report of Operations" (Form 3160-6) will be sent to BLM, 2370 South 2300 West, Salt Lake City, Ut. 84119.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual events will be promptly reported to BLM *per* NTL-3A.

If a replacement rig is to be used for completion operations, a Sundry Notice will be filed with BLM for prior approval. All conditions of approval for this APD are applicable to the replacement rig.

If the well is successfully completed for production, then BLM will be notified. Written notification will be sent not later than 5 business days following the date on which the well is placed on production. BLM may schedule a first production conference within 15 days after receipt of the first production notice.

Approval will be obtained to vent/flare gas during the initial well evaluation from BLM. Preliminary approval will not exceed 30 days or 50 MMcf of gas, whichever comes first. Approval to vent/flare beyond this initial limit will require BLM's approval *per* NTL-4A.

The well will not be plugged without BLM's prior approval. A Sundry

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Notice will be sent to BLM within 30 days following completion of the well for abandonment. The Sundry will note where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until reclamation required by the approved APD or abandonment notice has been completed to the satisfaction of BLM.

Once plugged, a 4' high regulation dry hole marker will be installed. The following legend will be beaded on with a welding torch: Rangeland Exploration Company, Judd Hollow #1, SWNW 19-43s-2e, U-69657.

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## Surface Use Plan

### 1. EXISTING ROADS & DIRECTIONS (See PAGES 16-18)

From Glen Canyon City, Utah; go west  $\approx 10.3$  mi. on US 89.  
Then turn left between Mileposts 17 and 18 at a junction marked by a BLM Cottonwood Canyon sign.  
Go SE  $\approx 8.2$  mi. on a dirt road.  
Then turn left and go N 1.4 mi. on a dirt road to the wellsite.

*This APD is also serving as a BLM road right-of-way application. The right-of-way extends from US 89 to state land, and from state land to the lease (U-69657) boundary. Length is  $\approx 3.8$  mi. Width is 30'. The right-of-way crosses the following land in T. 43 S., R. 1 E.:*

E2W2 & SW4SE4 Sec. 6  
W2NE4, N2SE4, & SE4SE4 Sec. 7  
SW4SW4 Sec. 8  
E2SE4 & SE4NE4 Sec. 24  
S2S2, NE4SE4, & E2NE4 Sec. 25

### 2. ROAD TO BE UPGRADED

No new road will be built since the proposed wellsite overlaps an existing abandoned wellsite. Roads will be maintained to a standard at least equal to their present condition. Water may be used for dust control. Maximum grade is 5%. No turnouts or culverts are needed. Upgrading will be limited to pruning limbs and flat blading to remove ruts. The road will not be realigned.

Three existing 10' wide cattleguards will be removed, set aside, and

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replaced with  $\approx 15'$  wide cattleguards. If the well is plugged, then the old cattleguards will be reinstalled. If the well produces, the new cattleguards will become permanent.

Surface disturbance and vehicle travel will be limited to the approved location and road. Any additional area needed will require BLM's prior approval.

### 3. EXISTING WELLS

There are no existing oil, gas, water, injection, or disposal wells within a 1 mile radius. There is only a plugged and abandoned well which will be re-entered by Rangeland. The well was plugged in 1966.

### 4. PROPOSED PRODUCTION FACILITIES

The type and layout of the production facilities are not known now. Most likely they will include four 20' high 400 bbl tanks for oil and water, heater-treater or separator, and flare pit. A Sundry Notice will be submitted before they are installed.

All permanent (on site for 6 or more months) surface facilities will be painted a flat, neutral tan or juniper green color. Painting will be completed within 6 months of installation. Parts required to comply with OSHA colors will be excluded.

The tank battery will be surrounded by a dike of sufficient capacity to contain 150% of the storage capacity of the battery. All loading lines will be placed inside the dike.

Site security regulations in 43 CFR 3162.7 and Onshore Order #3 will

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be obeyed. Required plan will be submitted to BLM within 30 days of equipment installation. Oil and gas measurement will comply with Onshore Orders #4 (43 CFR 3162.7-2) and #5 (43 CFR 3162.7-3). Any commingling or off lease storage or measurement must have BLM's prior approval.

Gas meter run will be within 500' of the wellhead. The gas flowline will be buried from the wellhead to the meter and downstream for the remainder of the pad. Meters will be housed and/or fenced.

Oil and gas measurement facilities will be installed on the well pad. Meters will be calibrated in place before the first delivery. Meter accuracy tests will be conducted at least quarterly thereafter. BLM will be notified of the initial calibration date and time. Calibration reports will be sent to BLM. All metering will conform with API standards for oil measurement and AGA standards for gas.

##### 5. WATER SUPPLY (See PAGE 18)

Depending upon cost, water will either be piped ( $\approx 4$  mi.) or trucked ( $\approx 14$  mi.) from a well at Church Wells. If piped,  $\approx 2$ " diameter plastic pipe will be unrolled from a pickup truck via a jeep trail which leads southeast from Church Wells. The pipe will be rolled up and removed upon the completion of the well. No blading will be done. If trucked, the water will be hauled via tank trucks along the route described on the previous page. An Application to Appropriate Water is being filed with the State of Utah Div. of Water Rights.

*This APD is also a right-of-way application for the temporary  $\approx 2$ " diameter surface plastic pipeline. Right-of-way length is  $\approx 3.5$  mi., width is  $\approx 12'$ , and crosses S2N2 & NW4NW4 Sec. 24; SW4SW4 Sec. 13; E2E2 & NW4NE4 Sec. 14; and SW4SE4 & E2W2 Sec. 11; T. 43 S., R. 1 E.*

## 6. CONSTRUCTION MATERIALS & METHODS

The top  $\approx 6$ " of soil will be stripped and stockpiled east and west of the pad. A minimum 8' wide diversion ditch will be cut around the south corner of the pad to drain north. The south corner of the pad will be rounded. The reserve pit will be lined with minimum 12 mil plastic. Construction materials will be on lease native soil in place on the well pad and road.

## 7. WASTE DISPOSAL

At least half of the reserve pit capacity will be in cut. The pit will be fenced 4' high on 3 sides with 4 strands of barbed wire or woven wire topped with barbed wire within 24 hours after it is built. The 4th side will be fenced within 24 hours after drilling stops. The fence will be kept in good repair while the pit dries.

All trash will be placed in a trash cage. When full, it will be hauled to a state approved landfill. There will be no trash burning or disposal of trash in the reserve pit. Chemical toilets will be used for human waste.

Water will be produced into the reserve pit for 90 days or less after initial production. During the 90 days, an NTL-2B application will be submitted for BLM's approval of a permanent disposal method and site.

## 8. ANCILLARY FACILITIES

There will be no airstrip or formal camp. Three camper trailers may be on site for the company man, mud logger, and tool pusher.

9. WELL SITE LAYOUT

See PAGES 16 & 17 for depictions of the well pad, cross sections, cut and fill diagrams, reserve pit, burn pit, access road onto the pad, parking, living facilities, and rig orientation.

10. RECLAMATION

Within 24 hours of completing drilling, the wellsite and immediate area will be cleared of all debris, material, and junk not needed for production.

Reclamation will start when the reserve pit is dry. BLM will be called at least 48 hours before starting reclamation work that uses earth moving equipment. All areas not needed for production will be backfilled, recontoured to match natural contours, and reserved topsoil and brush evenly spread. If the well is a producer, then enough topsoil will be kept aside to reclaim the rest of the pad. Disturbed areas will be ripped, harrowed, or scarified before seeding. That pile of topsoil and all reclaimed areas will be broadcast seeded in late fall with the below mixture. Seeded areas will be left rough and lightly harrowed or drug with a chain after seeding.

- 4 lb/ac Indian ricegrass
- 4 lb/ac needle and thread grass
- 4 lb/ac fourwing saltbush
- 2 lb/ac sand dropseed
- 1 lb/ac galleta grass
- 1 lb/ac black grama grass

11. SURFACE OWNER

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Judd Hollow #1  
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The pad,  $\approx 3.9$  mi. of dirt road, and  $\approx 3.5$  mi. of temporary surface pipeline are managed by BLM. The remaining  $\approx 5.7$  mi. of road and  $\approx 0.5$  mi. of pipeline are managed by the Utah Div. of State Lands & Forestry.

## 12. OTHER INFORMATION

The dirt contractor will have an approved copy of the surface use plan. The well will be identified from rig-up on *per* 43 CFR 3162.6.

If cultural resources are found during construction, all work will stop in that area and BLM notified. Rangeland will inform everyone in the area associated with the well that they are subject to prosecution for disturbing historic or archaeology sites or for collecting artifacts.

There will be no change from the proposed drilling and/or workover plan without prior approval from the District Manager. A Sundry Notice will be filed for approval for all changes of plans and other operations *per* 43 CFR 3162.6.

This permit will be valid for one year from the approval date. After it expires, a new application will be filed for approval of future operations.

BLM's Kanab Resource Area phone number is (801) 644-2672. Ask for Skip Schipper. BLM's Cedar City District phone number is (801) 586-2401. Ask for Theron Mitchell.

Safe drilling and operating practices will be used. The nearest hospital is an hour drive to Page.

A 345kv powerline is visible from the wellsite. Plant cover includes Indian paintbrush, ephedra, broom snakeweed, sagebrush, knee high



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cedar, Indian ricegrass, cheatgrass, prickly pear, and globemallow.

### 13. REPRESENTATION AND CERTIFICATIONS

Anyone having questions concerning the APD should contact:

Brian Wood  
Permits West, Inc.

37 Verano Loop  
Santa Fe, NM 87505

(505) 984-8120

FAX: (505) 988-9682

*984 and 988 prefix will change to 466 on June 1, 1994.*

The field representative for Rangeland will be:

Terry Michael  
Rangeland Exploration Company  
P.O. Box 232  
Midland, Tx. 79702  
(915) 686-8983

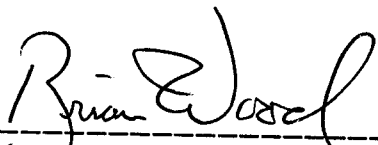
I hereby certify Rangeland Exploration Company has the necessary consents from the proper lease and unit interest owners to conduct lease and unit operations in conjunction with this APD. Bond coverage *per* 43 CFR 3104 for lease activities will be provided by Rangeland Exploration Company.

I hereby certify I have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Rangeland Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This

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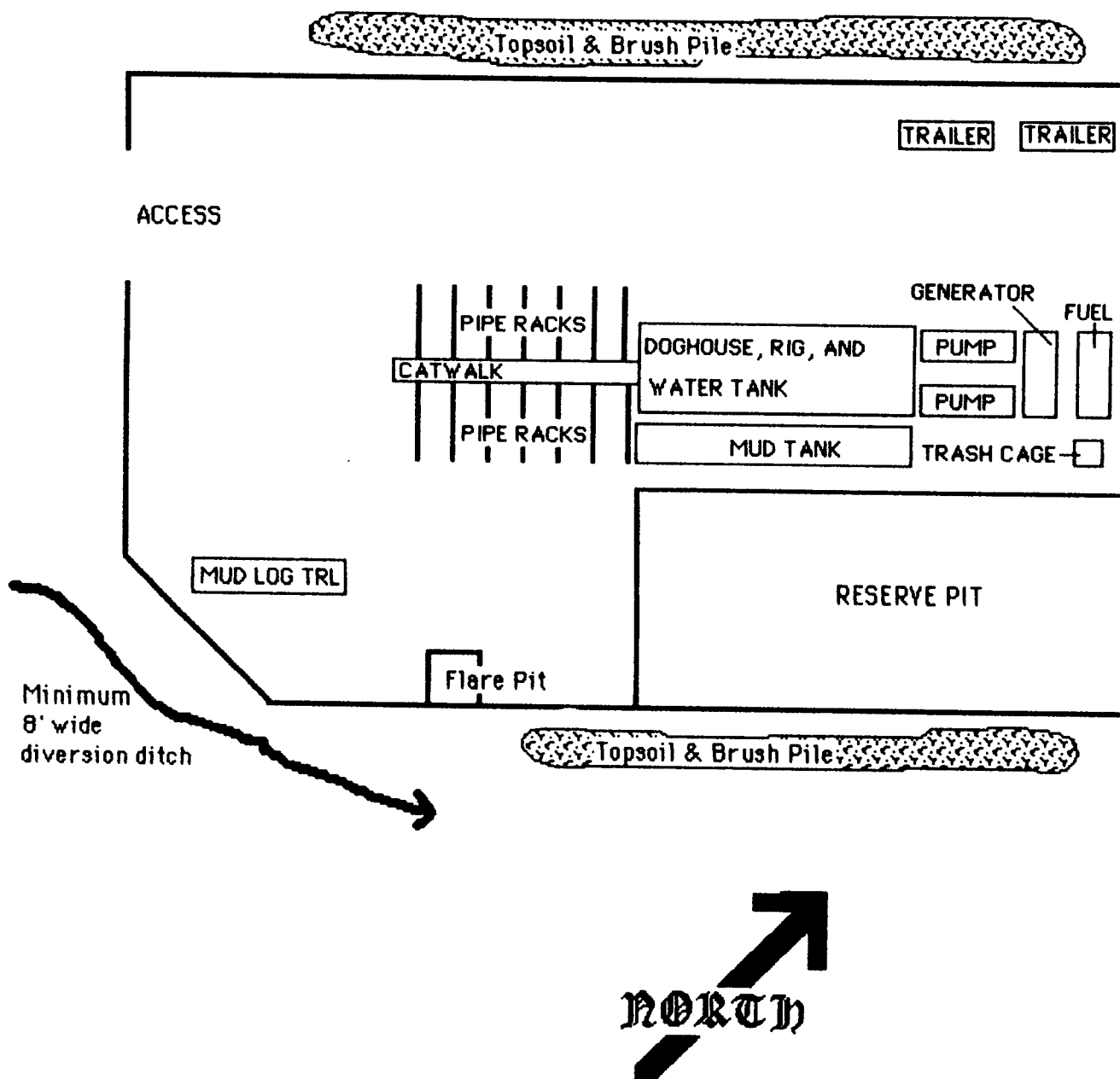
statement is subject to the provisions of 18 U.S.C. 1001 for the filing  
of a false statement.

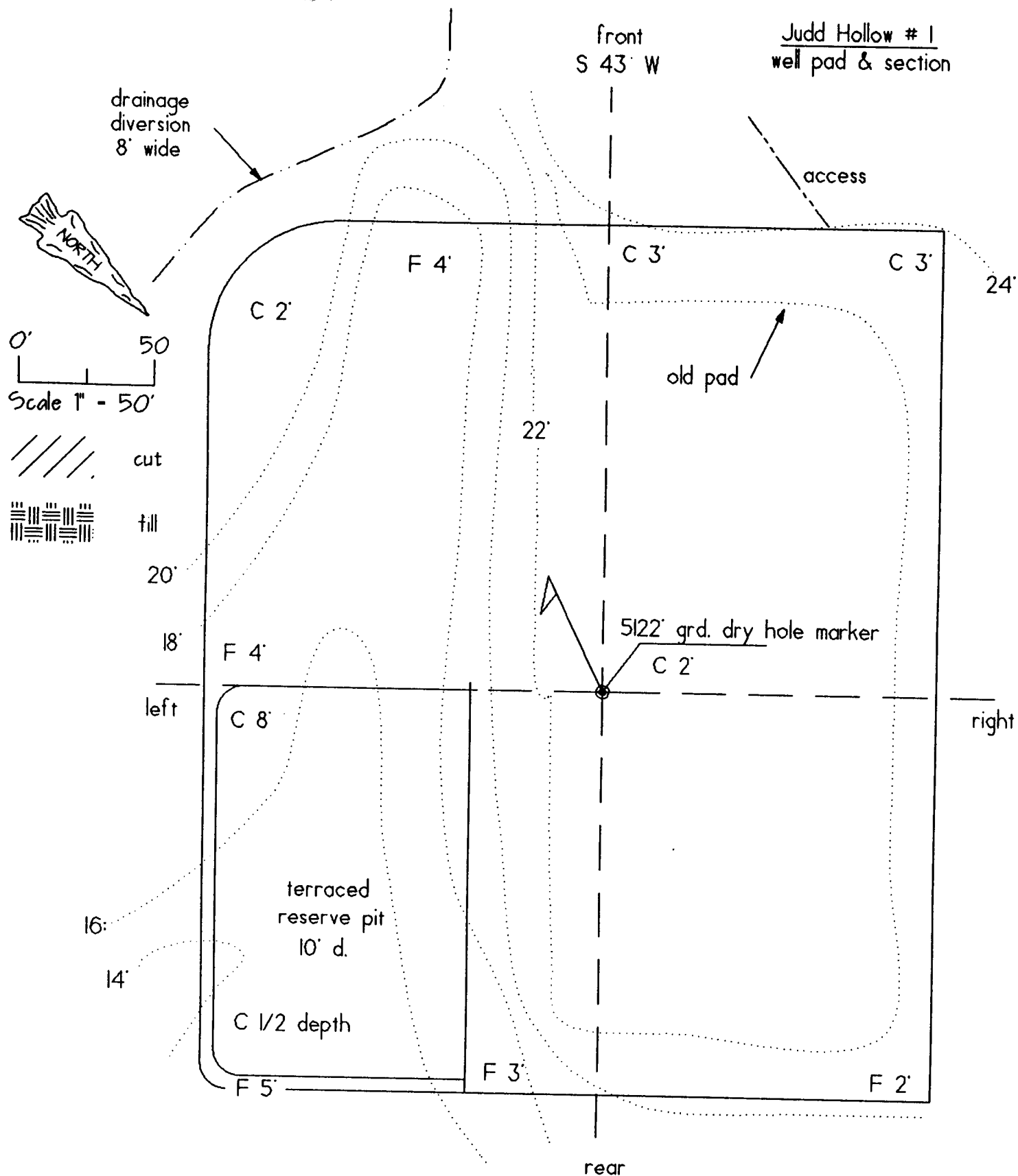
  
-----  
Brian Wood, Consultant

April 19, 1994  
Date

Rangeland Exploration Company  
Judd Hollow #1  
1823' FNL & 668' FWL  
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WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/25/94

API NO. ASSIGNED: 43-025-20063

WELL NAME: JUDD HOLLOW 1 (RE-ENTRY)✓  
OPERATOR: RANGELAND EXPLORATION CO (N7920)

PROPOSED LOCATION:

SW NW ~~SENN~~ 19 - T43S - R02E  
SURFACE: 1823-FNL-0668-FWL  
BOTTOM: 1823-FNL-0668-FWL  
KANE COUNTY  
WILDCAT FIELD (001)

LEASE TYPE: FED  
LEASE NUMBER: UTU-69657

PROPOSED PRODUCING FORMATION: TAPTS

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat  
N Bond: Federal[] State[] Fee[]  
(Number \_\_\_\_\_)  
N Potash (Y/N)  
N Oil shale (Y/N)  
N Water permit  
(Number \_\_\_\_\_)  
Y RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
✓ R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS:

No bond # supplied in APO.  
\* Re entry \* 1830' FNL + 660' FWL, No 1 Judd Hollow

STIPULATIONS: 1. WATER PERMIT TO BE SUPPLIED PRIOR TO  
SPAD.



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-358-3940 (Fax)  
801-538-5319 (TDD)

July 15, 1994

Rangeland Exploration Company  
P.O. Box 232  
Midland, Texas 79702

Re: Judd Hollow #1 Well, 1823' FNL, 668' FWL, SW NW, Sec. 19, T. 43 S., R. 2 E.,  
Kane County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to reenter and drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

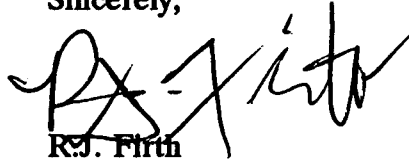
1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.
6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.



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Rangeland Exploration Company  
Judd Hollow #1 Well  
July 15, 1994

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-025-20063.

Sincerely,

A handwritten signature in black ink, appearing to read "R.J. Firth", written over a horizontal line.

R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Kane County Assessor  
Bureau of Land Management, Cedar City District Office  
WO11

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: RANGELAND EXPLORATION

Well Name: JUDD HOLLOW # 1 (RE-ENTRY)

Api No. 43-025-20063

Section 19 Township 43S Range 2E County KANE

Drilling Contractor FOUR CORNERS

Rig # 16

SPUDDED: Date 2/13/95

Time

How ROTARY

Drilling will commence

Reported by TERRY MICHAEL

Telephone #

Date: 2/12/95 Signed: FRM



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR Rangeland Exploration Company  
ADDRESS P.O. Box 232  
Midland Texas 79702

OPERATOR ACCT. NO. H 7920

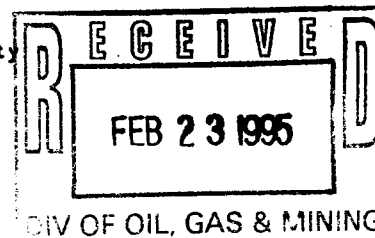
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A.	99999	11739	43-025-20063	Judd Hollow No.1	SWNW	19	43S	2E	KANE	2-14-95	2-14-95
WELL 1 COMMENTS: DEEPENING OF EXISTING WELLBORE DRILLED BY UNION OIL OF CALIFORNIA IN 1966.											
WELL 2 COMMENTS: Entity added 2-27-95. <i>lee</i>											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



Tim W. Michael  
Signature  
President  
Title  
2/18/95  
Date  
Phone No. (915) 686-8983

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
SUMMIT IN DUPL  
(See instructions on reverse side)  
FEB 26 1995

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

UTU-69657

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Judd Hollow #1

9. API WELL NO.

43-025-20063

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 19, T43S, R2E

12. COUNTY OR PARISH

Kane

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other RE-ENTRY

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. REVR. ☐ Other P&A

2. NAME OF OPERATOR

Rangeland Exploration Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 232, Midland, TX 79702; 915/686-8983

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1823' FNL & 668' FWL

At top prod. interval reported below

N/A

At total depth

Same

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\*

19. ELEV. CASINGHEAD

12/28/94

2/26/95

P&A'd 2/28/95

5122' GL, 5139' KB

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

9012'

7341-9012'

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

None

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
**20"	91.41	50'	26"	Ready Mix - 11 yards	-0-
**10-3/4"	40.5, 45.5	2750'	13-3/4"	1400 sx 50-50 Pozmix	-0-
**Set when well was originally drilled in 1966					

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)
**8-5/8	2648	5966	200 sx 50	-50 Poz

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

Dry hole - Plugged and abandoned 2/28/95

DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. W. Mizal TITLE President

DATE 3/21/95

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Well P & A'd 2/28/95 as follows:			
Plug No. 1:	6325'-6025';	300';	85 sx
Plug No. 2:	Set CIBP @ 5900';	Spot 15sx	5900'-5850'
Plug No. 3:	2725'-2575';	150';	55 sx
Plug No. 4:	50'-surface;	50';	25sx

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Carmel:	surface	"
Navajo	160	"
Kayenta	2,060	"
Wingate	2,175	"
Chinle	2,342	"
Shinarump	3,236	"
Moenkopi	3,445'	"
Kaibab	4,050'	"
Toroweap	4,375'	"
Organ Rock	4,600'	"
Cedar Mesa	5,106'	"
Hermosa	6,120'	"
Molas	6,245'	"
Redwall	6,295'	"
Ouray	6,899'	"
Elbert	6,995'	"
Lynch	7,169'	"
Bright Angel	8,170'	"
Tapeats	8,490'	"
Drillers TD	9,012'	"

FORM OGCC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Judd Hollow Unit #1  
Operator UNION OIL COMPANY OF CALIFORNIA Address P. O. Box 3372 Phone 303-247-4300  
Contractor Loffland Bros. Drilling Co. Address Casper, Wyoming Phone \_\_\_\_\_  
Location SW 1/4 NW 1/4 Sec. 19 T. 43 N R. 2 E Kane County, Utah.  
S W

Water Sands: Jurassic Navajo

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>160</u>	<u>2060</u>	<u>Est. 50 to 100 Bbls./day</u>	<u>Fresh</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____

(Continued on reverse side if necessary)

Formation Tops:

Remarks: Water was encountered in lower 1/3 of Navajo sandstone. Sample of water was sent to the State of Utah.

NOTE: (a) Upon diminishing supply of forms, please inform the Commission.  
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).  
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Drillers Log: (Continued)

Jurassic		Cambrian	
Carmel	Surface	Lynch	7169
Navajo	160	Total Depth	
Kayenta	2060	Driller	7341
Triassic		Schlumberger	7341
Wingate	2175		
Chinle	2342		
Shinarump	3236		
Moenkopi	3445		
Permian			
Kaibab	4050		
Toroweap	4375		
Organ Rock	4600		
Cedar Mesa	5106		
Pennsylvanian			
Hermosa	6120		
Molas	6245		
Mississippian			
Redwall	6295		
Devonian			
Ouray (?)	6899 (?)		
Elbert	6995		

Rule C-20

REPORTING OF FRESH WATER SANDS

It shall be the duty of any person, operator or contractor drilling an oil or gas well or drilling a seismic, core or other exploratory hole to report to the Commission all fresh water sands encountered; such report shall be in writing and give the location of the well or hole, the depth at which the sands were encountered, and the thickness of such sands, and the rate of flow of water if known.

OCT 10 1966